

Use your favorite software to browse the contents of the **histday.nc** file

<http://ferret.pmel.noaa.gov/Ferret/documentation/users-guide/index-1/index>

ferret

yes? use histday.nc	open histday.nc file
yes? sh data	show the data in this file I=longitude J=latitude K=levels of the model L=number of time steps
yes? shade/k=39 temp	2D plot of temperature at the first level of the model
yes? go land	to plot continents on the figure
yes? plot/j=19/i=20 temp	plot a temperature profile over the point j=19,i=20
yes? list/j=19/i=20 temp	list numerical values of temp
yes? shade temp[k=@ave];go land	2D plot of mean temperature over altitude
yes? set view upper yes? shade/l=1 tsol	plots the figure in the upper part of the page
yes? set view lower	
yes? set view ul	plots the figure in the upper-left corner
yes? set view ur	plots the figure in the upper-right corner
yes? set view ll	
yes? set view lr	
yes? frame/file=my_figure.gif	to save last plots in a gif file
yes? cancel viewport	to go back to a "one plot on the page" version
yes? plot/vs/line/l=1/k=39 temp,pres/100.	plot temperature versus pressure
yes? plot/l=1 tsol[i=@ave];go land	plot longitudinal average of temperature
yes? plot/j=19/i=1/k=39/vlimits=298,5:302 temp	plot temperature of first level, with vertical limits 298,5-301,2
yes? plot/j=19/i=1/o tsol	plot "over" tsol
yes? quit	

This session produces a **ferret.jnl** file you can rename, modify and re-use later (with go ferret.jnl).

Ferret tutorial:

ferret

yes? go tutorial

Same commands for Grads ;

(the ↵ symbol means that you need to hit return of course !)

To erase the figure, it is necessary to use « clear » between two commands (or « c »)

grads

sdfopen histday.nc	
q file x = longitude y = latitude z = model pressure levels t = time	
set z 1 ↵ d temp ↵	
set mpdraw on	Or « set mpdraw off »
set x 20 ↵ set y 19 ↵ set z 1 39 ↵ d temp	
set gxout print ↵ d temp	
set lon -180 180 ↵ set lat -90 90 ↵ set z 1 ↵ d ave(temp,z=1,z=39)	
set vpage 0 6 0 8.5 ↵ set parea 0.5 6 4.5 8.5 ↵ set gxout shaded ↵ d tsol	See this page for more info
set parea 0.5 6 0 4	Coordinates must be adjusted by hand
gxprint figure.pdf	
	Impossible using Grads unfortunately
d ave(tsol,lon=-180,lon=180)	
set lon -180 180 ↵ set y 19 ↵ set z 1 ↵ set vrange 298.5 301.2 ↵ d temp	
d tsol	Default behavior if « clear » is not used
quit	

To have a white background and a clean page, start your session with :

set display color white

set grads off

More commands :

<http://cola.gmu.edu/grads/gadoc/users.html>